

WHAT IS CLAIMED IS

1. A sealing device in which a seal gap is provided between a rotor and a stator, so that the leakage of a sealed fluid can be prevented in a non-contact manner under the rotation of the rotor, characterized in that
a movable floating ring is mounted in said seal gap and formed so that if its thickness is defined as 1, its length in a widthwise direction perpendicular to a thickness-wise direction is defined as equal to or larger than 3.
2. A sealing device according to claim 1, characterized in that said floating ring is formed of one type of a resin or a plurality of type of resins selected from thermoplastic resins and thermosetting resins.
3. A sealing device according to claim 1 or 2, characterized in that said floating ring is formed of a fluorine resin.
4. A sealing device according to any of claims 1 to 3, characterized in that said floating ring has an annular notch provided therein to extend toward a rotating center in a direction perpendicular to the thickness-wise direction.
5. A sealing device according to any of claims 1 to 4, characterized in that said floating ring has an concavoconvex pattern provided on its surface.

6. A sealing device according to any of claims 1 to 5, characterized in that each of said seal gap and said floating ring is formed into a cylindrical shape with different diameters at axially opposite ends.

7. A sealing device according to any of claims 1 to 6, characterized in that said rotor is provided with a sealing member for preventing the leakage of the sealed fluid from said seal gap at least during stoppage of the rotation of said rotor.